

Mid-semester Exam - Object Oriented Methodology

Duration: 20 minutes | Number of questions: 15 | Each Question carries 1 mark | No negative marking for wrong answers

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Which statement out of the following is "not" true about the Waterfall Model?

1 point

- ☐ The Implementation phase starts after the Design phase is complete
- ☒ The Implementation phase can go in parallel with the Requirement Analysis phase
- ☐ The Maintenance phase is the last phase of the Waterfall model
- ☐ The Design phase begins after the Requirement Analysis phase has finished

Clear selection

A namespace is a

1 point

- ☐ directory where all the source files of an application reside
- ☐ space within the memory where the private members of a class reside
- ☒ collection of declarations and definitions
- ☐ mechanism to call C code from a C++ source file

Clear selection

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FILL OUT A NEW RESPONSE

Provided that s1 and s2 are instances of the string class from the standard C++ template library, which of the following statements will not produce a syntax error (select all that apply) 1 point

- ☒ s1 + s2;
- ☐ s1 - s2;
- ☒ s1 == s2;
- ☒ s1 != s2;

Assume that you issued the following command on a bash shell, and it succeeded into creating some executables. What comment can you make about the directory "Week 3"? 1 point

```
saurabh@saurabh-VirtualBox: /host/Downloads/examples/Week 3$ make clean all
```

- ☐ The directory has three files called "make", "clean" and "all"
- ☐ The directory has a file (e.g. called "makefile") which contains the directions to build the executables
- ☐ The directory must not have any source files (e.g. those with extensions C or CPP)
- ☐ The executables produced by the command must be inside the examples directory

A drawback of structured programming that can be elegantly handled through object oriented programming is 1 point

- ☒ the encapsulation of data and its related behaviour together in one programming unit
- ☐ the efficient use of recursion for solving problems
- ☐ the segregation of declarations from definitions
- ☐ the efficient use of library function

Clear selection

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FILL OUT A NEW RESPONSE

With your understanding of the C and C++ languages, fill in the blanks

1 point

`<X>` is to `<Y>` as `<P>` is to `<Q>`.

- ☒ X = extraction operator, Y = cin, P = insertion operator, Q = cout
- ☐ X = cout, Y = scanf, P = cin, Q = printf

Clear selection

Based on your understanding, fill in the blanks

1 point

In the simplest terms, `<X>` can be considered as `<Y>` with some added `<Z>`.

- ☐ `<X>` = structures, `<Y>` = classes, `<Z>` = strings
- ☒ `<X>` = classes, `<Y>` = structures, `<Z>` = functions
- ☐ `<X>` = C++, `<Y>` = C, `<Z>` = features for bash scripting
- ☐ `<X>` = CPP source files, `<Y>` = C source files, `<Z>` = commands to execute them

Clear selection

What is the effect of adding the following statement in a C++ source file?

1 point

`using namespace std;`

- ☐ All the code written in the current source file becomes a part of the namespace std
- ☒ All the declarations in the namespace std can be accessed below without prepending std::
- ☐ There is no need to include header files from standard library in this source file (via include statements)
- ☐ Deletion of the namespace std if it already exists, and creation of a new namespace with the same name

Clear selection

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FILL OUT A NEW
RESPONSE

Which of the following is not a basic data type in C?

1 point

- ☐ int
- ☐ char
- ☒ float
- ☐ bool

Clear selection

During a detailed Object Oriented Modelling process, which of the following modelling operations may be performed (select all that apply)?

1 point

- ☒ Class Modelling
- ☒ State Modelling
- ☒ Interaction Modelling
- ☐ Cost Modelling

Using your knowledge about the Object-Oriented Methodology, match the following to the best of your knowledge

1 point

- A. Technical Institute
- B. IIIT Lucknow
- C. Department of IT
- D. Conduct Entrance Exam

1. Field's Value
2. Method
3. Class
4. Object

- ☐ A --> 1, B --> 2, C --> 3, D --> 4
- ☐ A --> 2, B --> 3, C --> 4, D --> 1
- ☒ A --> 3, B --> 4, C --> 1, D --> 2
- ☐ A --> 4, B --> 1, C --> 2, D --> 3

Clear selection

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FILL OUT A NEW
RESPONSE

What best describes the difference between Imperative and Declarative approaches to building systems? 1 point

- ☐ Imperative approach only talks about the results, without caring about the method in which they were achieved. Declarative approach focusses more on how the results are achieved.
- ☒ Declarative approach only talks about the results, without caring about the method in which they were achieved. Imperative approach focusses more on how the results are achieved.

Clear selection

Which of the following are keywords in both C as well as C++ (select all that apply)? 1 point

- ☒ switch
- ☐ class
- ☐ private
- ☒ struct

"The major purpose of creating a Domain model is to capture its vocabulary and the relationships between the real-world entities" 1 point

- ☒ True
- ☐ False

Clear selection

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FILL OUT A NEW
RESPONSE

If you wish to output the value of a bool variable as "true" instead of "1" and "false" instead of "0", which of the following can be helpful? 1 point

- ☐ Using printf() instead of cout
- ☐ Immediately using "endl" after printing a bool value with cout
- ☒ Using the boolalpha manipulator with cout
- ☐ Assign the bool variable's value to a string object and print the object using cout

Clear selection

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